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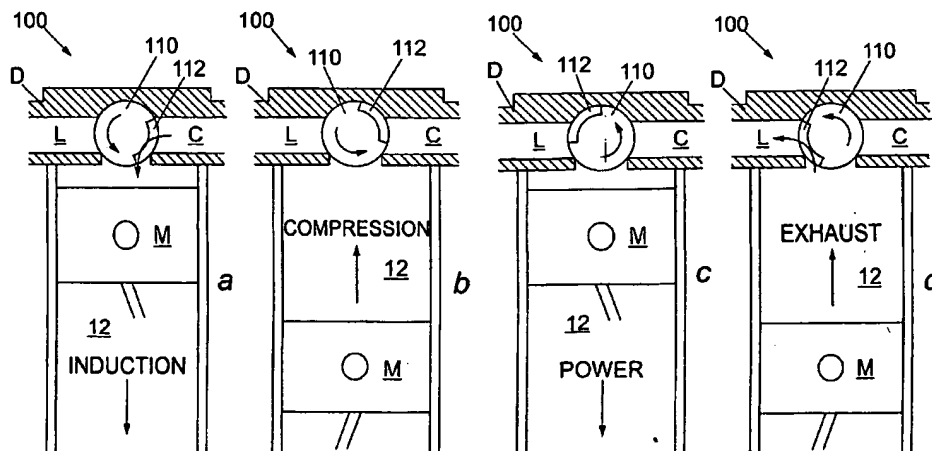
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(57) ~~Abstract~~—Cylinder head apparatus (100) for an internal combustion engine having a cylinder (F) and piston (M) comprises a rotating shaft (110) having a recess (112) causing periodic communication between the cylinder (F) and intake (C) and exhaust (L) passages. In other embodiments, two shafts are used, and hollow shafts with apertures are used.

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